

Title (en)  
Multi-track magnetic signal reproducing apparatus

Title (de)  
Vorrichtung zur Wiedergabe von mehrspurigen magnetischen Signalen

Title (fr)  
Appareil de reproduction de signaux magnétiques multipistes

Publication  
**EP 0594138 B1 20011219 (EN)**

Application  
**EP 93116895 A 19931019**

Priority  
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Abstract (en)  
[origin: EP0594138A2] In a multi-track magnetic signal reproducing apparatus, a plurality of MR heads including MR (Magnetoresistance Effect) elements (2-1 to 2-N) are provided correspondingly to tracks on a magnetic tape. At the time of reproduction, constant current from a constant current power supply (1) is sequentially supplied as pulse-shaped current for detecting a signal to each MR element by a switching operation by switch (3) in response to a prescribed clock signal (CL1), and output voltage from each MR element related to reproduction of a magnetic signal on a corresponding track is sequentially provided to one input side of a differential amplifier (4). In differential amplifier (4), the offset voltage of each MR element provided to the other input side and the above-described output voltage are differentially amplified and only voltage due to the reproducing magnetic signal of each track is accurately extracted. Accordingly, the supply of pulse-shaped current effectively suppresses increase in the amount of consumption current regardless of the number of tracks on the tape (or the number of heads), and since amplifier (4) is shared between the tracks, the number of necessary terminals for such a multi-track MR head is reduced. <IMAGE>

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